

MS27478F
12 July 2002

SUPERSEDING
MS27478E
2 January 1976

CONNECTORS, RECEPTACLE, ELECTRICAL, SOLDER
MOUNTING, SOLDER TYPE, HERMETIC SEAL, SERIES II

The requirements for acquiring the product described herein shall consist of this specification and MIL-DTL-38999.

Technical drawing of a 120° BSC plug gage. The drawing includes an end view on the left and a side view on the right.

End View Dimensions:

- Overall diameter: Q DIA
- Angle: 120° BSC
- Angle: 80° BSC

Side View Dimensions:

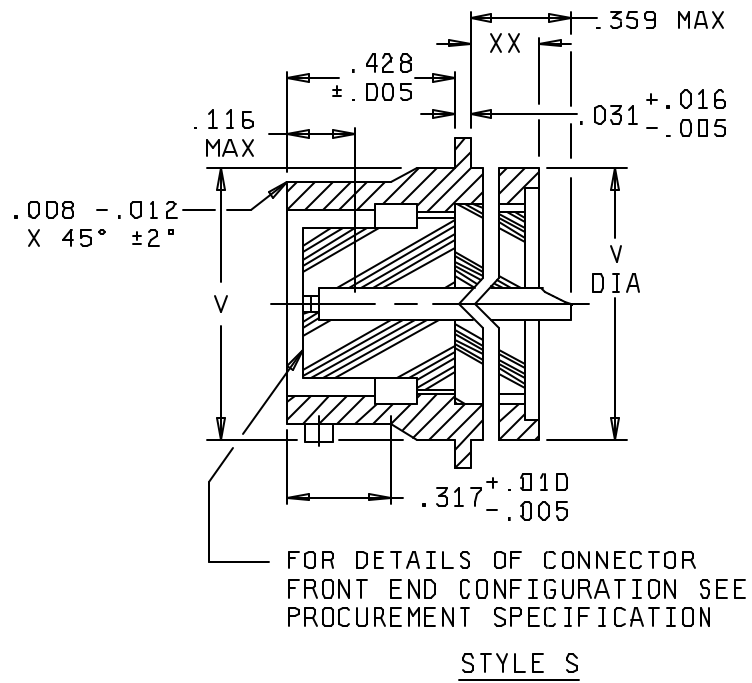
- Top width: .238 $\begin{smallmatrix} +.008 \\ -.010 \end{smallmatrix}$
- Width: .053 $\begin{smallmatrix} +.005 \\ -.011 \end{smallmatrix}$
- Width: .375 MAX
- Width: XX
- Width: .008 $\begin{smallmatrix} -.012 \\ \times 45^\circ \pm 2^\circ \end{smallmatrix}$
- Width: .317 $\pm .005$
- Width: .031 $\begin{smallmatrix} +.016 \\ -.005 \end{smallmatrix}$
- Overall diameter: V DIA

Other Labels:

- MARKING (EITHER LOCATION)
- STYLE P AND X)
- STYLE P

AMSC N/A 1 of 4
~~DISTRIBUTION STATEMENT A.~~ Approved for public release; distribution is unlimited.

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Shell size	Q +.011 -.010 dia	V +.001 -.005 dia	XX max
8	.687	.562	.125
10	.797	.672	
12	.906	.781	
14	1.031	.906	
16	1.156	1.031	
18	1.281	1.156	
20	1.375	1.250	
22	1.500	1.375	.156
24	1.625	1.500	

FIGURE 1. Receptacle, class Y – Continued.

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Inches	mm	Inches	mm	Inches	mm	Inches	mm
.001	.03	.016	.41	.359	9.12	.906	23.01
.003	.08	.031	.79	.375	9.53	1.031	26.19
.005	.13	.053	1.35	.428	10.87	1.156	29.36
.007	.18	.116	2.95	.562	14.27	1.250	31.75
.008	.20	.125	3.18	.672	17.07	1.281	32.54
.010	.25	.156	3.96	.687	17.45	1.375	34.93
.011	.28	.238	6.05	.781	19.84	1.500	38.10
.012	.30	.317	8.05	.797	20.24	1.625	41.28

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. For main key polarization and key positions, see MIL-DTL-38999.

FIGURE 1. ~~Receptacle, class Y~~ – Continued.

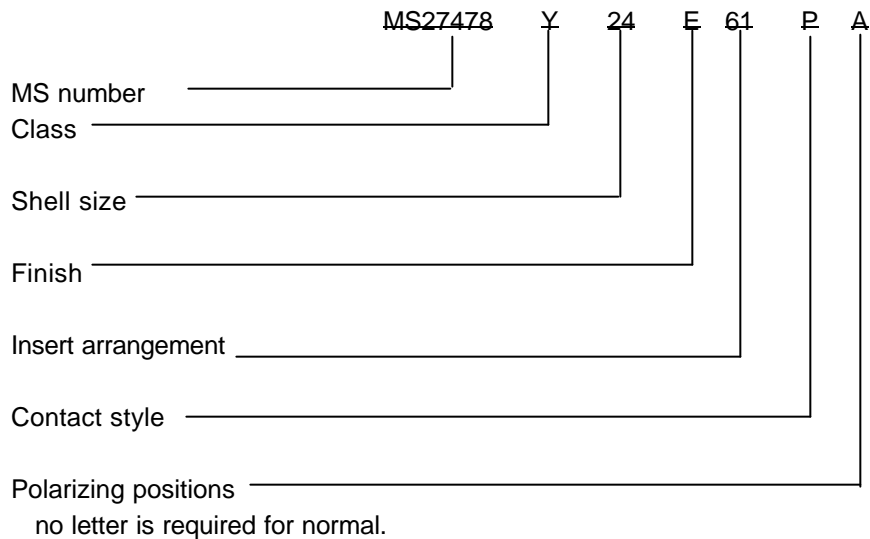
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REQUIREMENTS:

Dimensions and configuration: See figure 1. Interface dimensions shall conform to MIL-DTL-38999. This receptacle mates with MS27473, MS27480, MS27484 and MS27500.

Insert arrangements: See MIL-STD-1560.

Part or Identifying Number (PIN) example:



CONCLUDING MATERIAL

Custodians:

Army – CR
Navy – AS
Air Force – 11
DLA – CC

Preparing activity:

DLA – CC

(Project 5935-4371)

Review activities:

Army – AR, MI
Navy – EC, MC, OS
Air Force – 19, 99
DLA – IS